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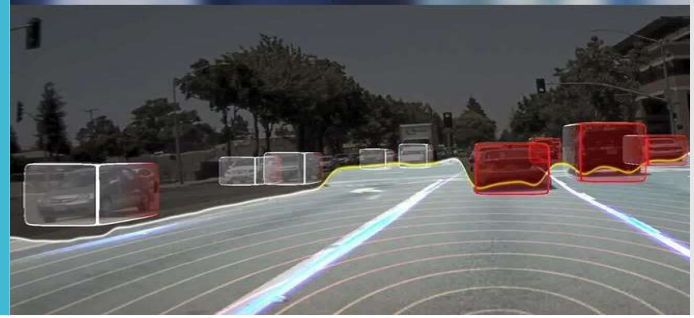
Tronc-E

Perception Unit of Microcar



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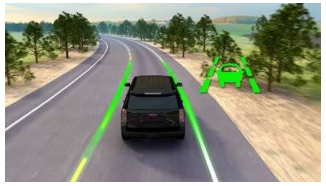
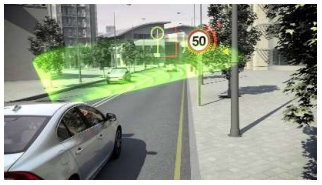
自駕微型車

- **Transportation Scenario & Conditions**
  - Self-driving on the Closed Campus: 0 km/h~60 km/h
  - Dedicated road under the open field
- **Self-driving functions**
  - Lane keep assistant
  - Multi-object detection
  - Stop & Go (0 km/h~20 km/h)
  - Adaptive Cruise Control (21 km/h~60 km/h)
  - Auto Emergency Braking (AEB city)(10 km/h~60 km/h)
  - Traffic sign recognition (10 km/h~60 km/h)
  - Self-parking on the stop (A→A)
  - Position



LKS

FCW(Stop & Go)



TSR (Speed limit)

AEB

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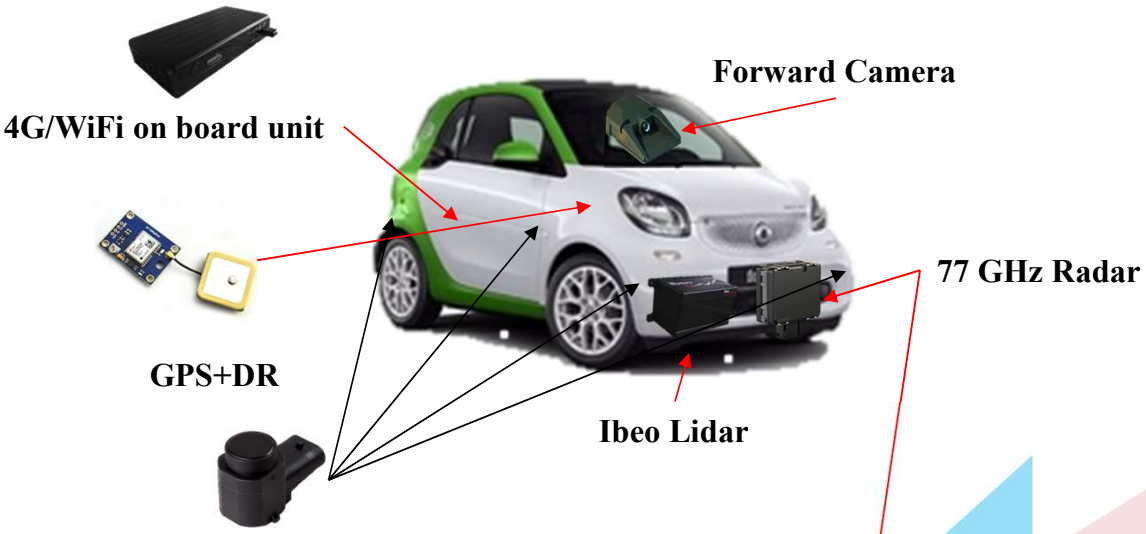
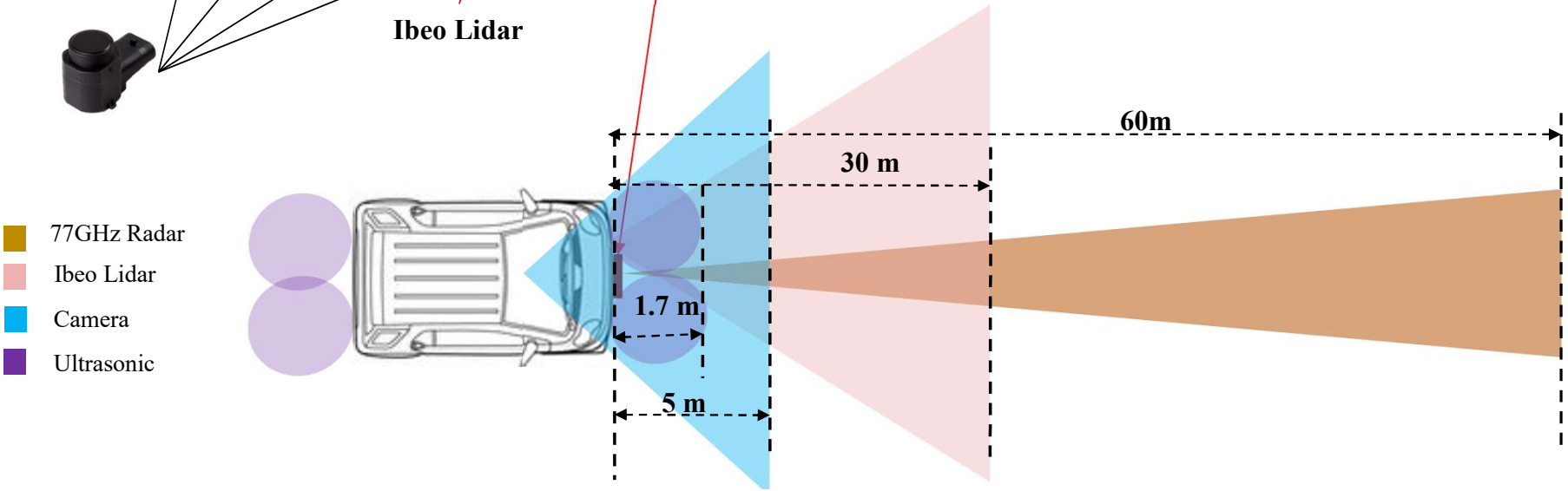
车辆传感器配置



In Vehicle

- DSRC/WiFi module X1
- DGPS/GPS module X1
- Forward Camera X1
- 77 GHz Forward Radar X1
- Ibeo Lux4 X1
- Ultrasonic radar X1



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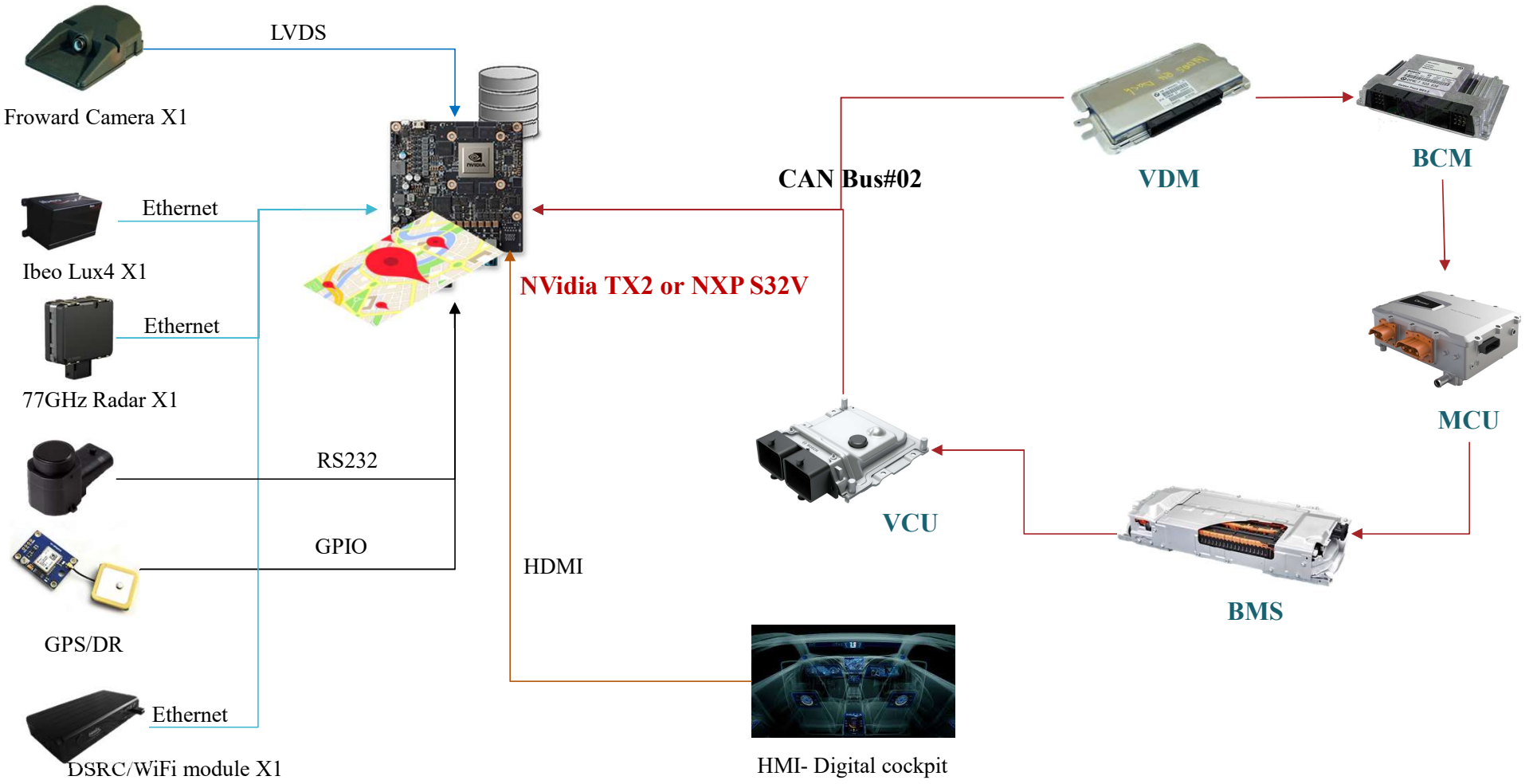
系统配置及数据串流接口



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主要功能与传感器间之关系

Functions	Specifications	Sensor	Actuator
Lane Keeping	Lane detection range: 0.5~30m; max FOV:120 deg. Accuracy: +-30cm Recognition rate:>95%	720P HDR Camera	Steering mechanism
Auto Emergency Braking	20~ 60 km/h Detection range: 0.5 m~60m ;FOV: 0 deg.~130 deg.	77 GHz Radar(0.5m~60m (min.))	Braking ; Accelerator
		Forward Camera (0.5~30m, Bus/pedestrian/traffic sign)	
		Lidar (Road edge detection, Multi-object, 0.5~30m)	
Adaptive Cruise Control (ACC) (Including Stop & Go)	0~60 km/h; Detection range: 0~60m; max FOV:130 deg. Acceleration: +- 3.6 m/sec.^2 Following distance gap : 3m	77 GHz Radar(0.5m~60m)	Braking; Accelerator
		Forward Camera (0.5~30m, Bus/pedestrian/traffic sign)	
		Lidar (Road edge detection, Multi-object, 0.5~30m)	
		V2V/V2R communication	
Traffic sign recognition	20 km/h~60 km/h, detection range: 30m	720P HDR Camera	Warning: image, sound

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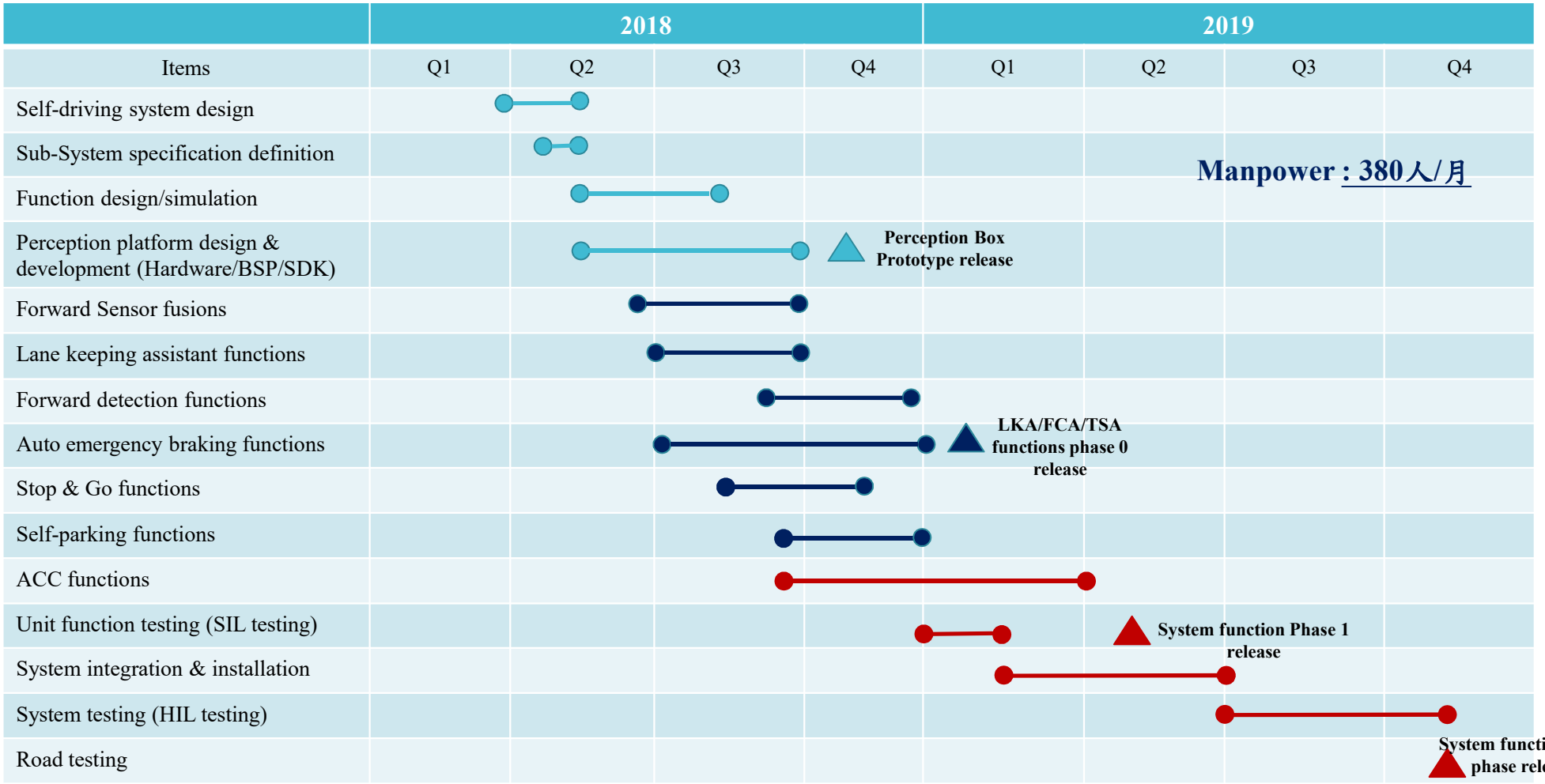
开发期程规划



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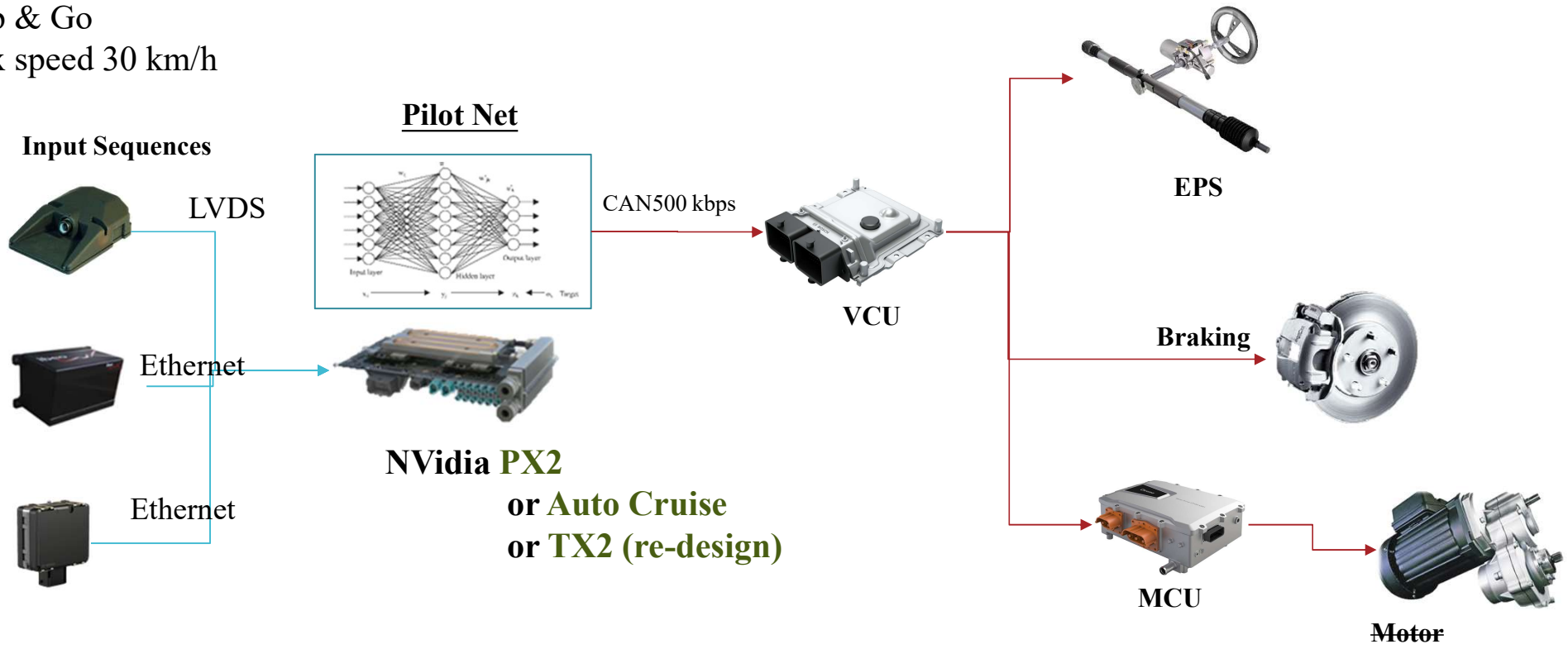
END to END Solution

for the closed field shuttle

Functions:

- Self-driving on the dedicated road under the closed field
- Stop & Go
- Max speed 30 km/h



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END to END Solution Demo

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Thanks for Your Attention!

No one will be injured or killed in the future...